Applicants: Rolando Pajon Feyt, et al.

Serial No.: 10/580,888 Filing Date: May 25, 2006 Docket No.: 976-33 PCT/US

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## Amendment to the Claims

The following listing of claims will replace all prior versions and listings of claims in the application:

## 1-31. (canceled)

- 32. (Currently amended) A method of preventing inducing an immune response against an infection caused by bacteria from a *Neisseria* genus in a human in need thereof, comprising administering to the human an effective amount of a recombinant protein comprising an amino acid sequence set forth in SEQ ID NO.: 4.
- 33. (Previously presented) The method according to claim 32, wherein the bacteria is *Neisseria meningitidis*.
- 34. (Previously presented) The method according to claim 32, wherein the bacteria is *Neisseria gonorrhoeae*.
- 35. (Currently amended) A method of preventing inducing an immune response against an infection caused by bacteria from a *Neisseria* genus in a human in need thereof, comprising administering to the human an effective amount of a pharmaceutical composition comprising a recombinant protein, wherein the protein comprises an amino acid sequence set forth in SEQ ID NO: 4 and a pharmaceutically acceptable carrier.
- 36. (Previously presented) The method according to claim 35, wherein the pharmaceutical composition further comprises a polysaccharide antigen.
- 37. (Previously presented) The method according to claim 36, wherein the polysaccharide antigen is a capsular polysaccharide of *Neisseria meningitidis*.
- 38. (Previously presented) The method according to claim 35, wherein the pharmaceutical composition further comprises a bacterial polysaccharide-protein conjugate, wherein said protein comprises an amino acid sequence set forth in SEQ ID NO: 4.

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- 39. (Previously presented) The method according to claim 35, wherein the pharmaceutical composition further comprises an inactivated microorganism.
- 40. (Previously presented) The method according to claim 35, wherein the pharmaceutical composition further comprises a peptide antigen.
- 41. (Previously presented) The method according to claim 35, wherein the pharmaceutical composition further comprises a hormone.
- 42. (Previously presented) The method according to claim 35, wherein the pharmaceutical composition further comprises a growth factor.
- 43. (Previously presented) The method according to claim 35, wherein the pharmaceutical composition is administered parenterally.
- 44. (Previously presented) The method according to claim 35, wherein the pharmaceutical composition is administered mucosally.
- 45. (Previously presented) The method according to claim 35 <u>44</u>, wherein the pharmaceutical composition is administered orally.
- 46. (Canceled)